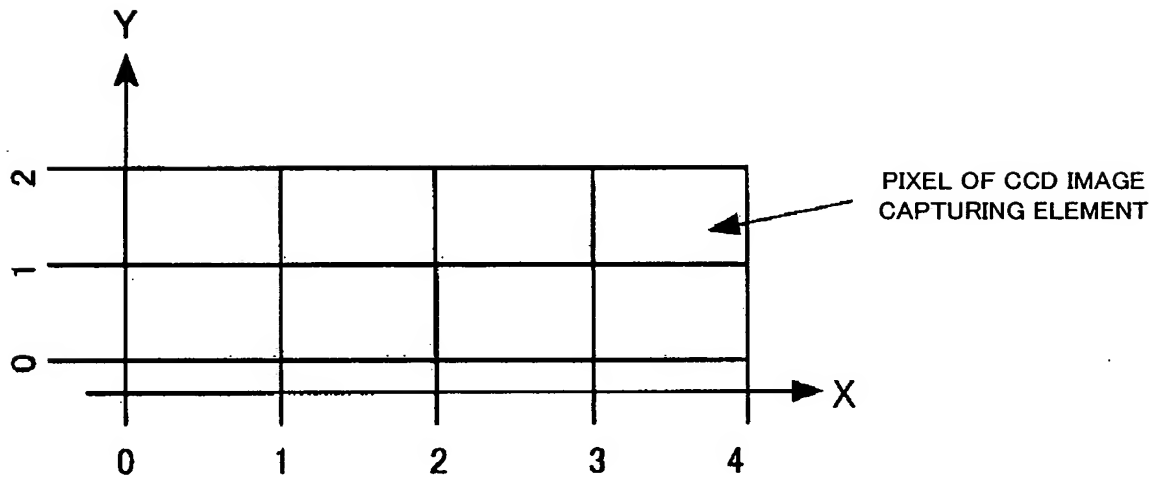


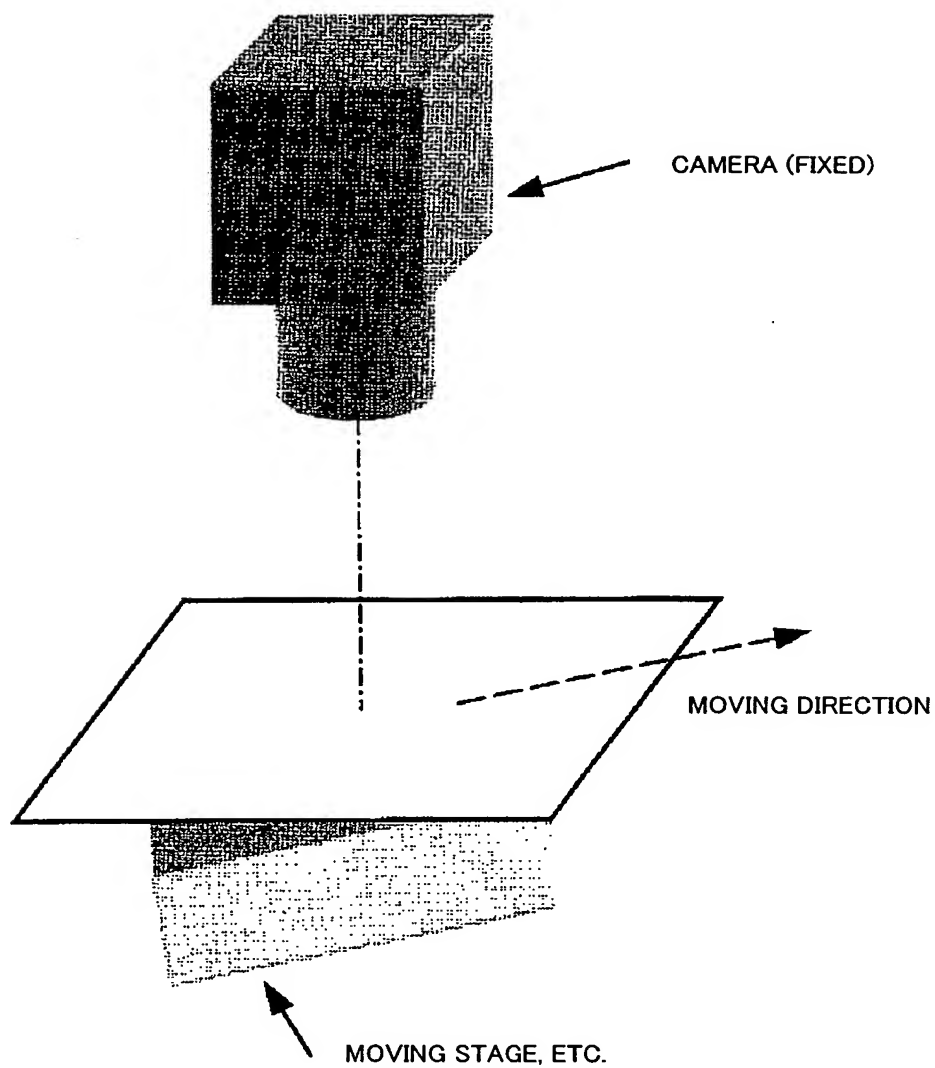
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FIG.1



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FIG.2



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FIG.3

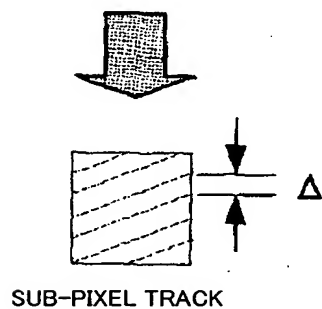
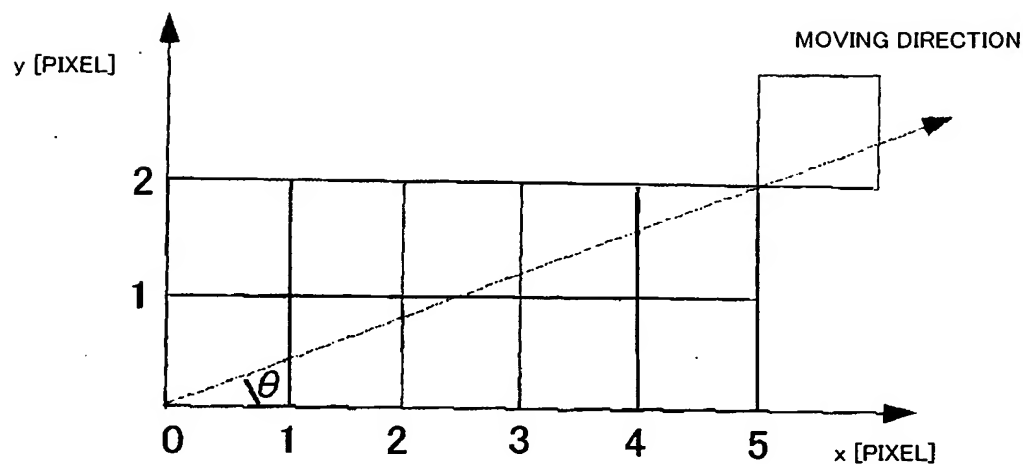
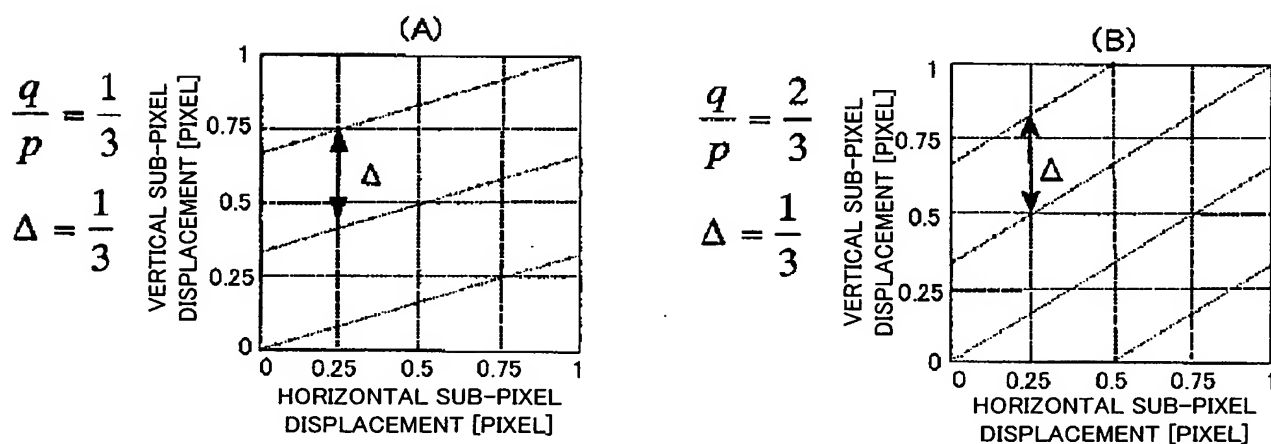


FIG.4



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FIG.5

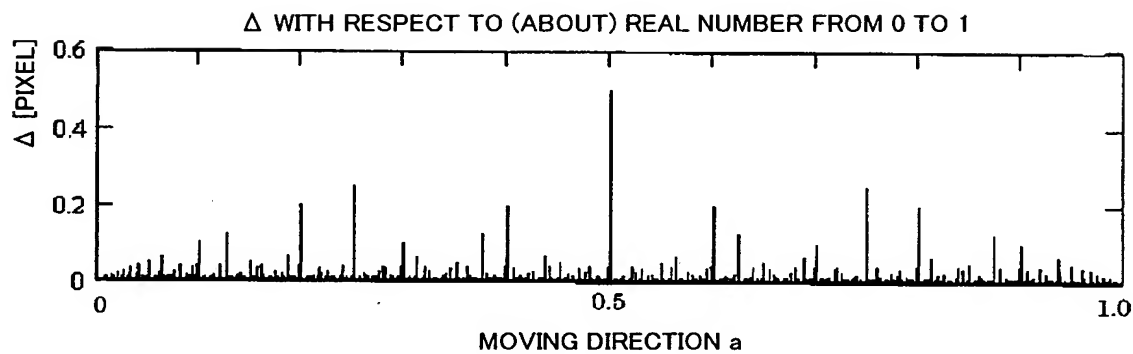
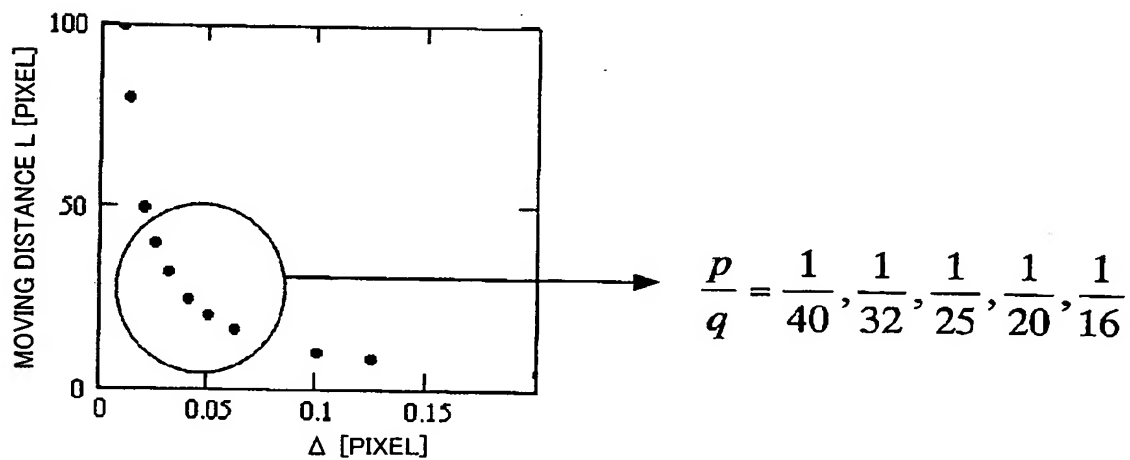


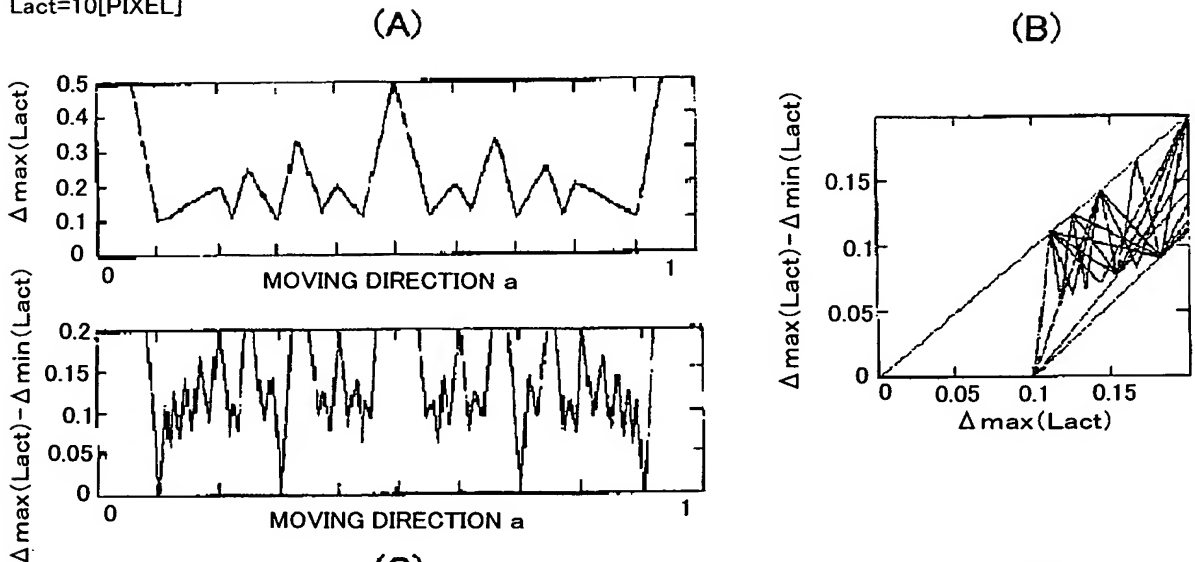
FIG.6



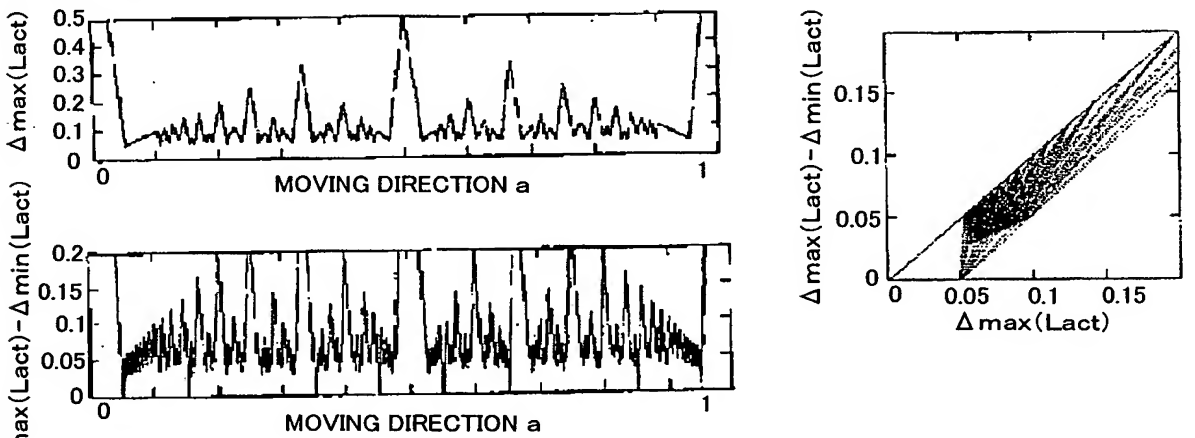
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FIG. 7

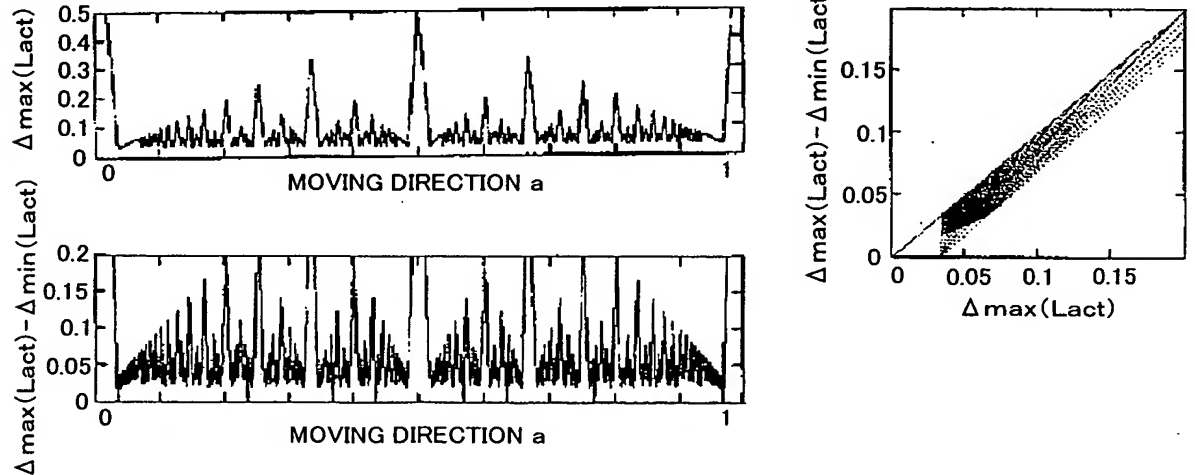
Lact=10[PIXEL]



Lact=20[PIXEL]

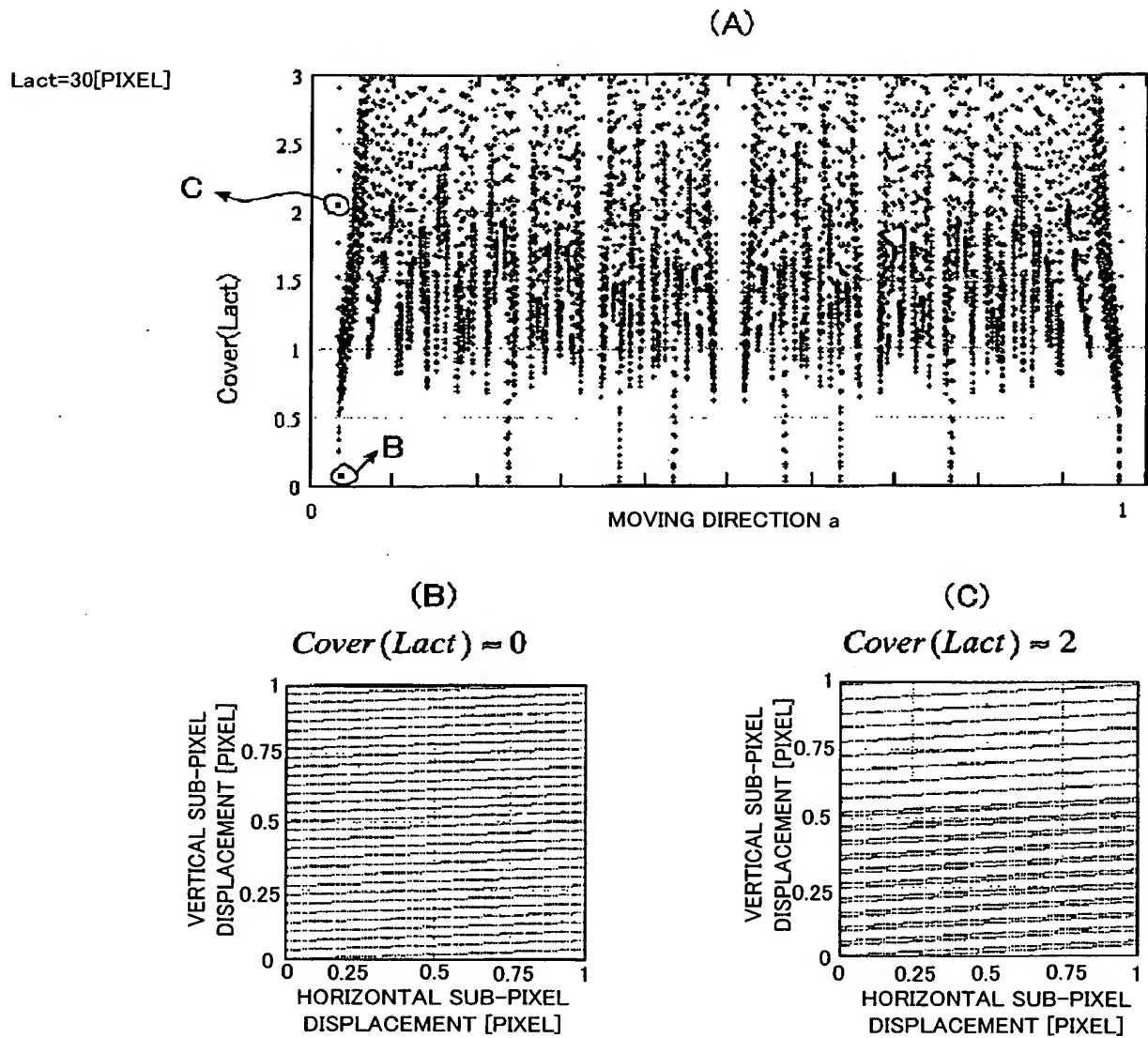


Lact=30[PIXEL]



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FIG.8



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FIG.9

Delta_max(p,q,Lact) :=

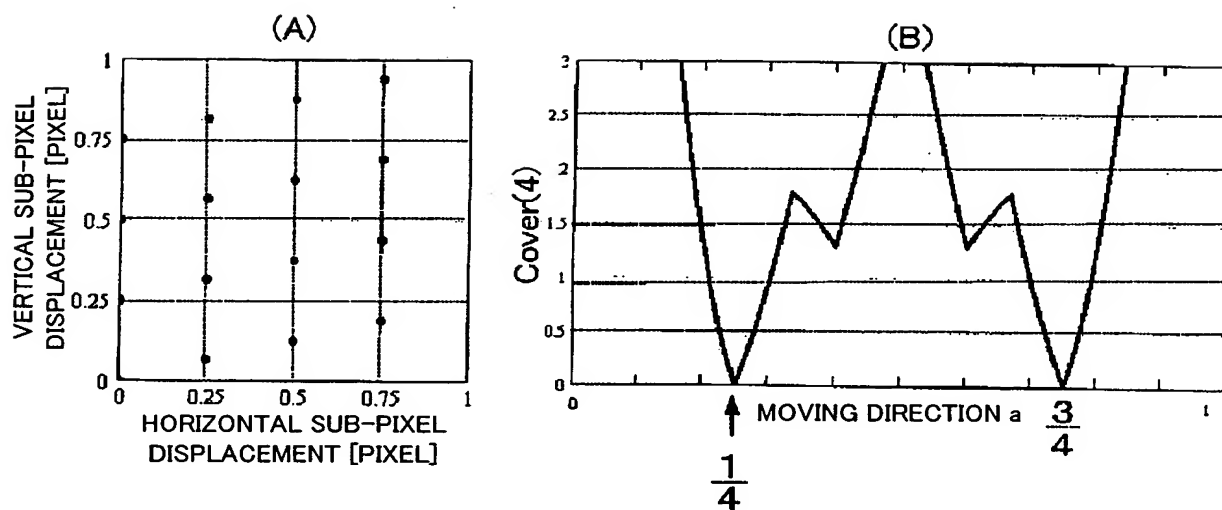
for	$n \in 0 \dots \text{Lact} - 1$
$B_n \leftarrow$	$\frac{q}{p} \cdot n - \text{floor}\left(\frac{q}{p} \cdot n\right)$
$C \leftarrow$	sort(B)
$C_{\text{Lact}} \leftarrow$	1
for	$n \in 0 \dots \text{Lact} - 1$
$dB_n \leftarrow$	$C_{n+1} - C_n$
$dC \leftarrow$	sort(dB)
$dC_{\text{Lact}-1}$	

Delta_min(p,q,Lact) :=

for	$n \in 0 \dots \text{Lact} - 1$
$B_n \leftarrow$	$\frac{q}{p} \cdot n - \text{floor}\left(\frac{q}{p} \cdot n\right)$
$C \leftarrow$	sort(B)
$C_{\text{Lact}} \leftarrow$	1
for	$n \in 0 \dots \text{Lact} - 1$
$dB_n \leftarrow$	$C_{n+1} - C_n$
$dC \leftarrow$	sort(dB)
dC_0	

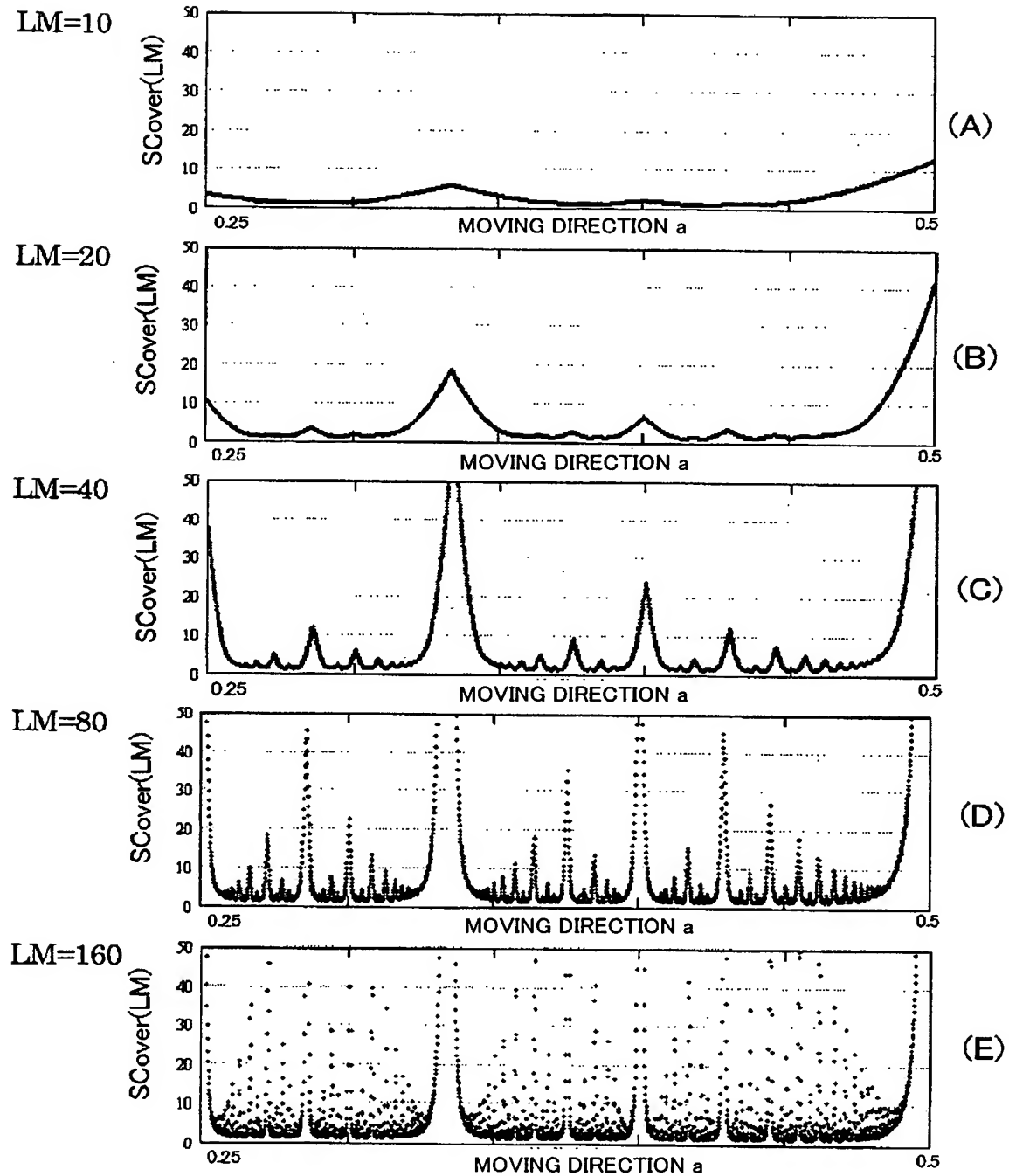
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FIG.10



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FIG.11



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FIG.12

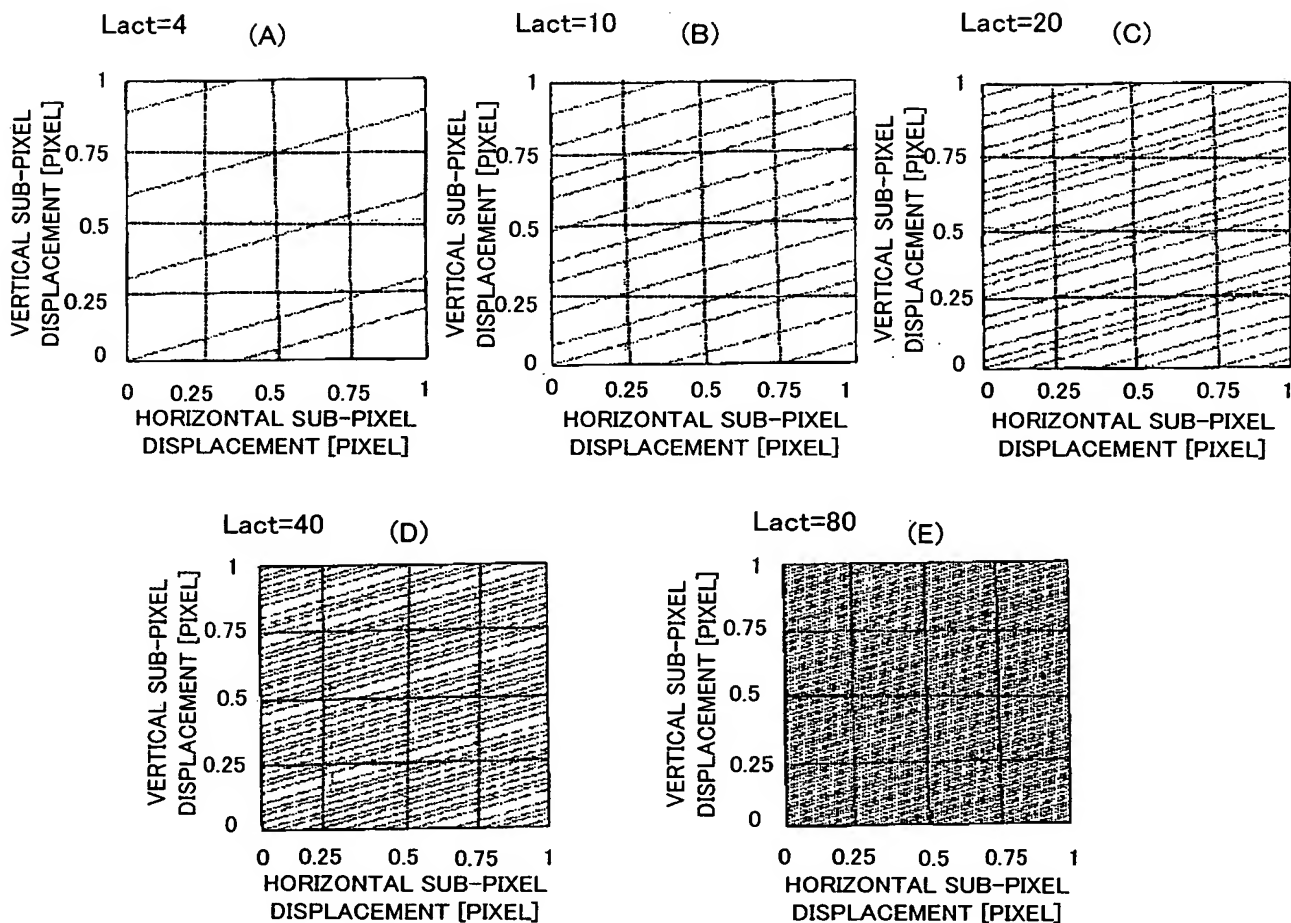


FIG.13

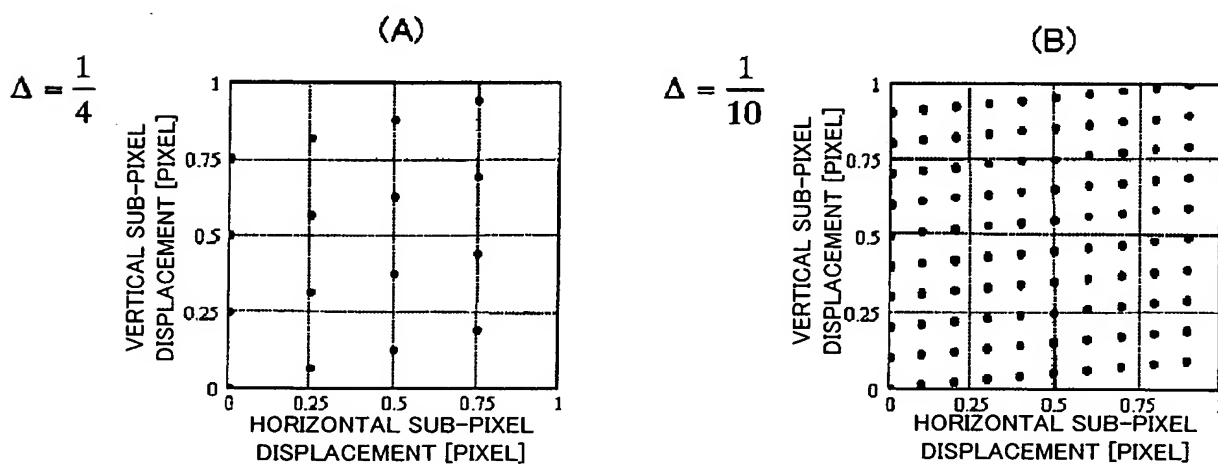
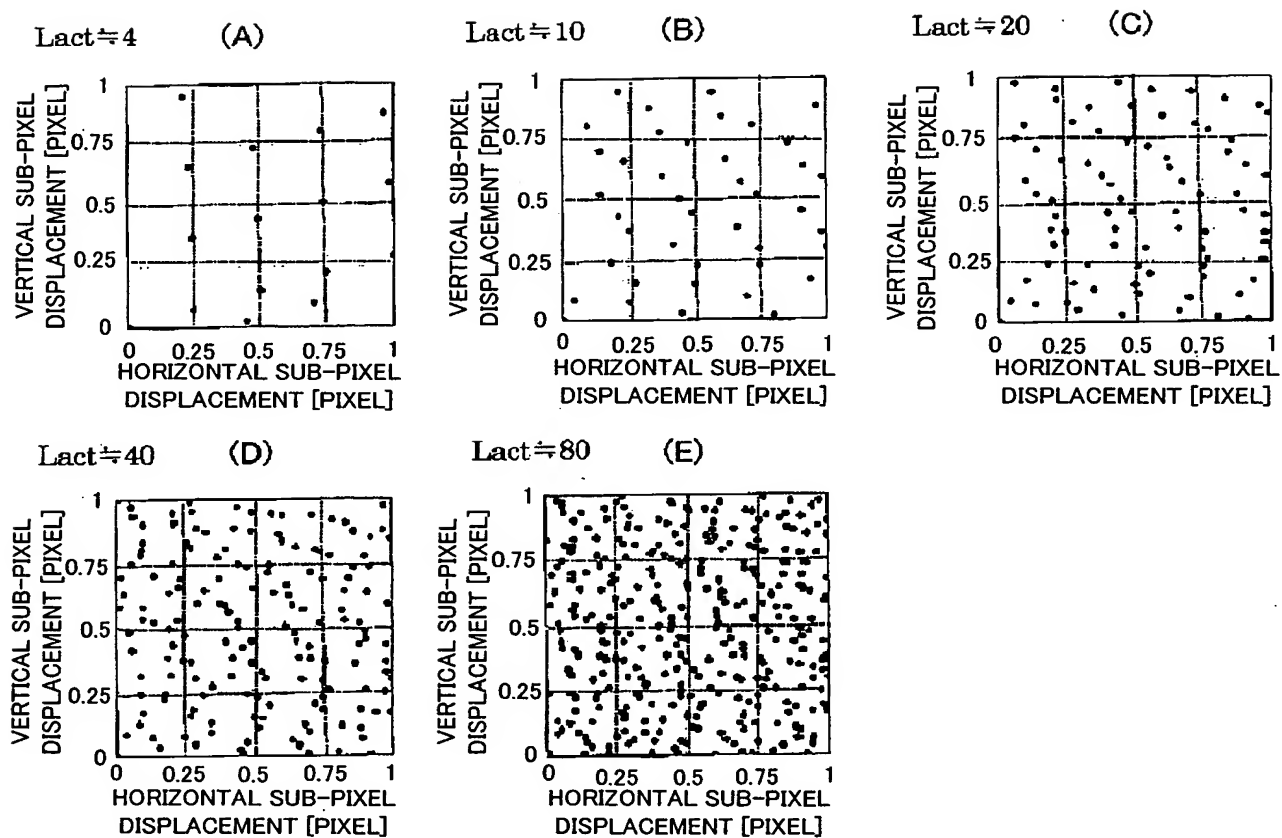


FIG.14



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FIG.15

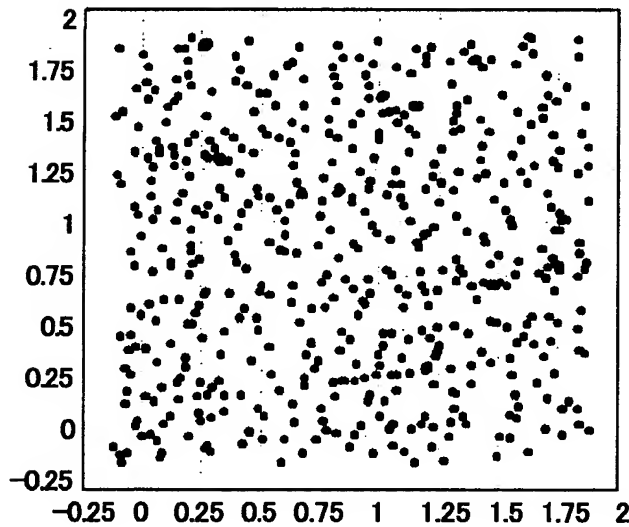
(A)



Lact=107.3, a=14.2/107.3

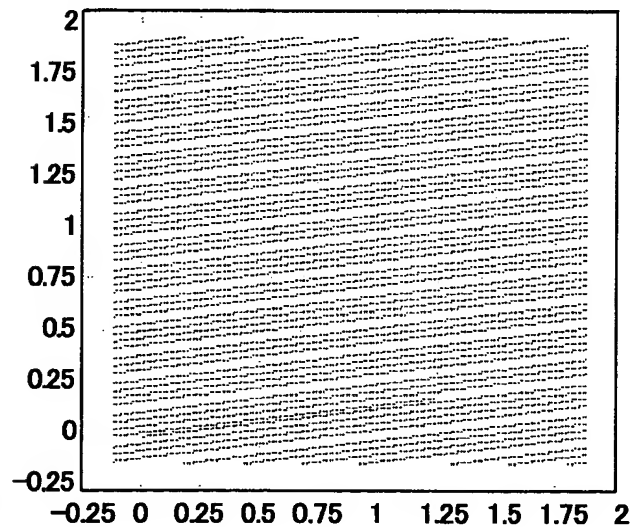
(B)

MEASURED SUB-PIXEL MOTION DISTRIBUTION

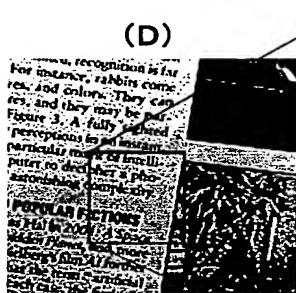


(C)

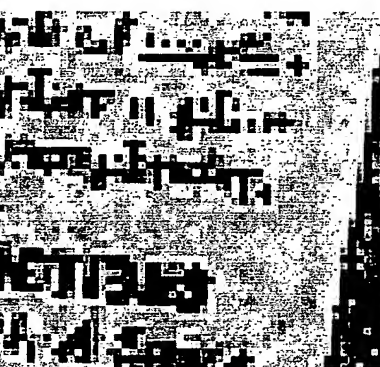
CALCULATED SUB-PIXEL MOTION DISTRIBUTION



(E)



(D)



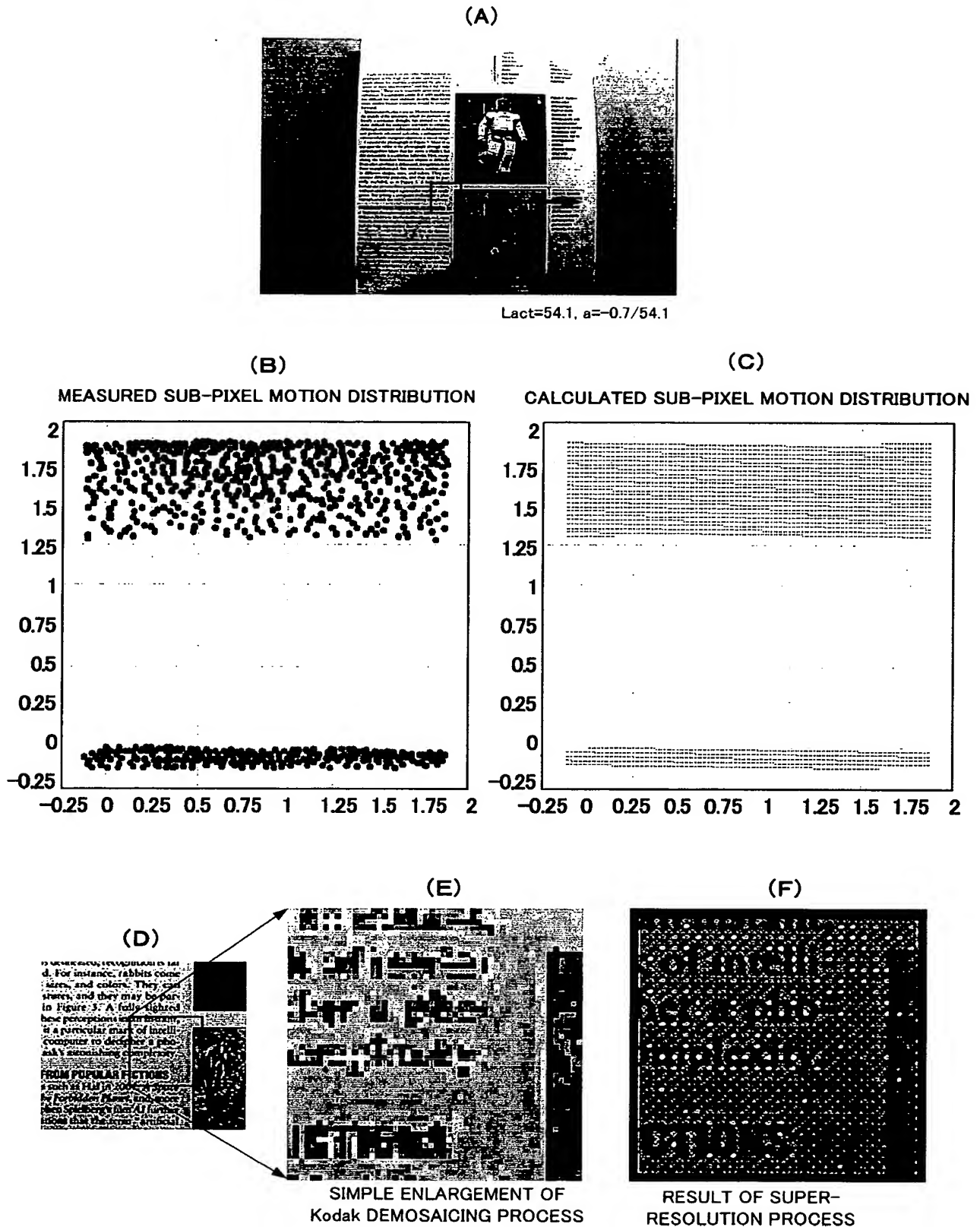
SIMPLE ENLARGEMENT OF
Kodak DEMOSAICING PROCESS

(F)



RESULT OF SUPER-
RESOLUTION PROCESS

FIG.16



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FIG.17

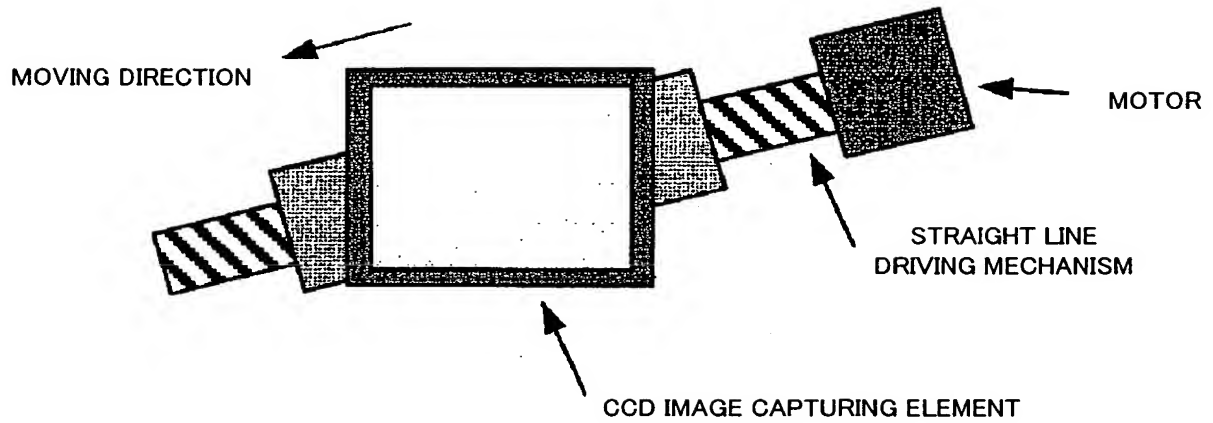
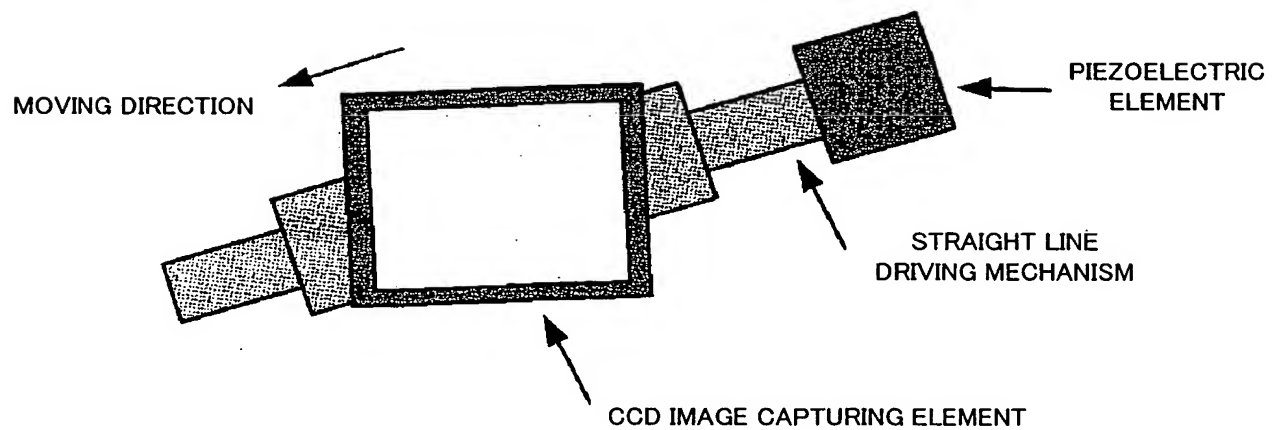
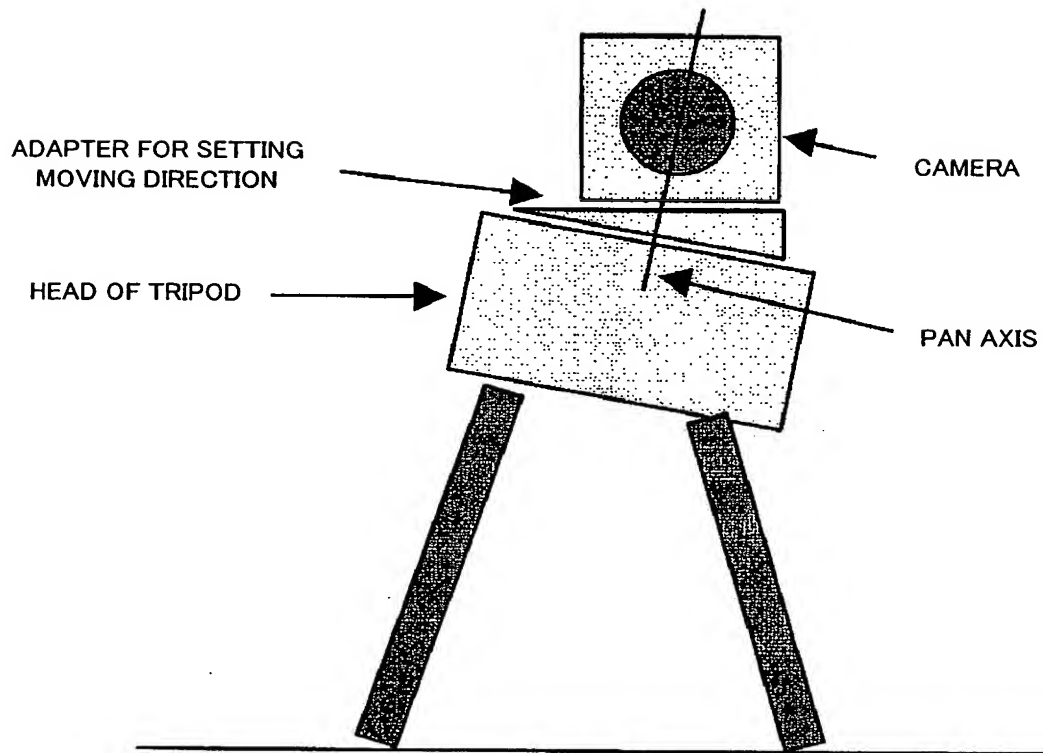


FIG.18



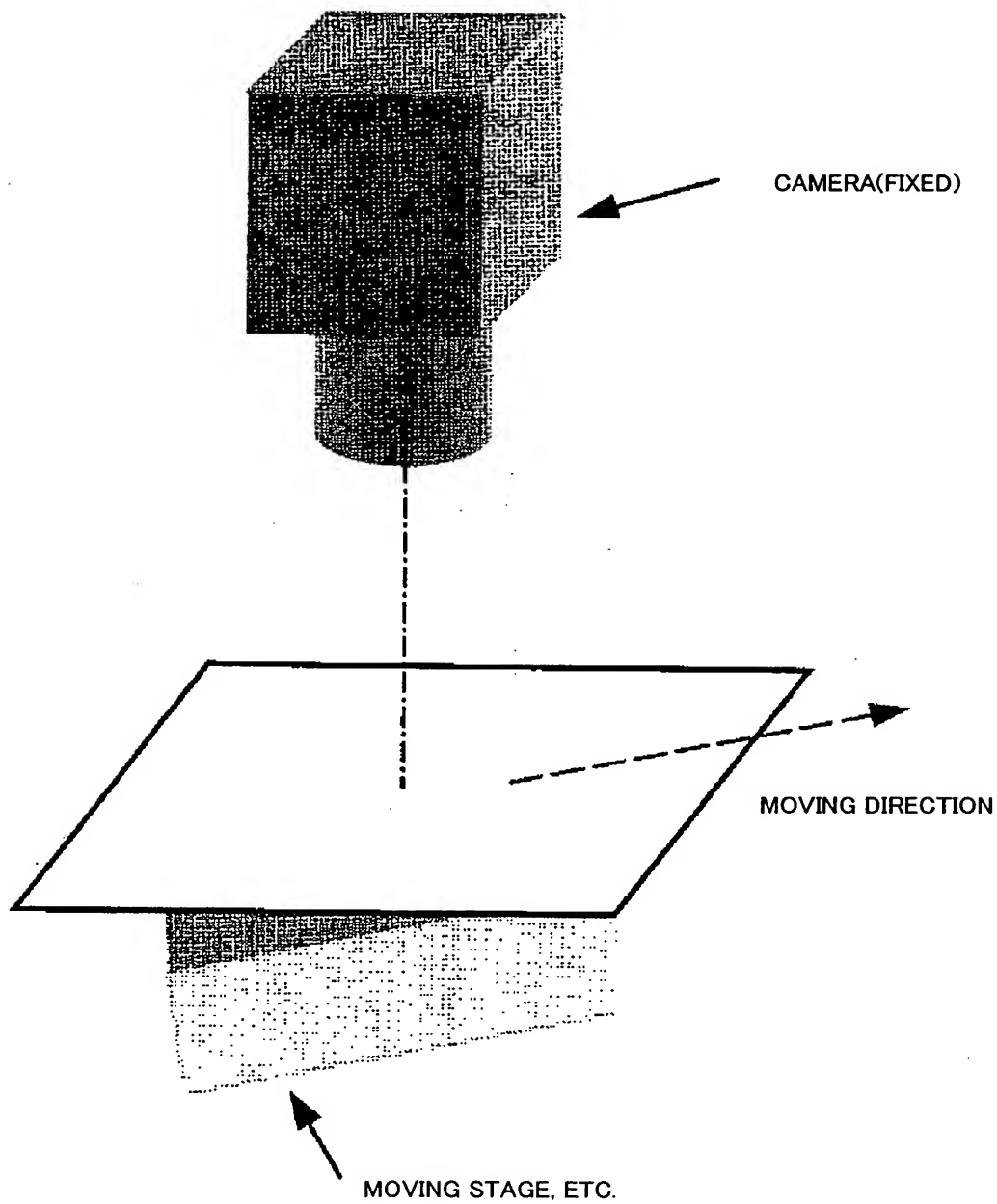
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FIG.19



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FIG.20



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FIG.21

